

WHAT IS CLAIMED IS:

1. An electronic component feeding device comprising:

a tape feeding system provided with a drive source enabling an intermittent feeding of a
5 storage tape stored with electronic components to a component pickup position, the tape feeding
system being adjustable for a plurality of pitches corresponding to sizes of the electronic
components;

a suppressor formed with an opening disposed at the component pickup position; and
a control device setting a feed stop position of the electronic components in the storage
10 tape so that an electronic component is positioned closer to an edge of the opening than a center
of the opening with respect to a feeding direction of the storage tape when the electronic
component is smaller than a predetermined size.

2. The electronic component feeding device of claim 1, further comprising a shutter
15 disposed over the opening of the suppressor and configured to open when the electronic
component is picked up by a suction nozzle.

3. The electronic component feeding device of claim 1, wherein the control device is
configured to set the feed stop position by using a head electronic component of the storage tape.

20 4. The electronic component feeding device of claim 1, wherein the control device sets
the feed stop position at the center of the opening when the electronic component is larger than
the predetermined size.

5. The electronic component feeding device of claim 1, wherein the opening is configured so that the electronic component is picked up by a suction nozzle.

6. The electronic component feeding device of claim 1, further comprising a
5 recognition camera taking an image of the electronic component stored in the storage tape through the opening and a recognition processing device recognizing the image taken by the recognition camera, wherein the control device sets the feed stop position based on a recognition result by the recognition processing device.

10 7. The electronic component feeding device of claim 1, further comprising a recognition camera taking an image of the electronic component stored in the storage tape through the opening, an image display device displaying the image taken by the recognition camera and an operating portion that is operated by an operator based on the image displayed on the image display device, wherein the control device sets the feed stop position based on an
15 operation of the operating portion by the operator.

8. An electronic component mounting apparatus comprising:
an electronic component feeding device feeding an electronic component for mounting, the electronic component feeding device comprising a tape feeding system provided with a drive
20 source enabling an intermittent feeding of a storage tape stored with electronic components to a component pickup position, and a suppressor formed with an opening disposed at the component pickup position;

a mounting head that picks up the electronic component fed from the electronic component feeding device and mounts the picked up electronic component on a printed circuit

board;

a recognition camera taking an image of the electronic component stored in the storage tape through the opening;

a recognition processing device recognizing the image taken by the recognition camera;

5 and

a control device setting a feed stop position of the electronic components in the storage tape based on a recognition result by the recognition processing device so that an electronic component is positioned closer to an edge of the opening than a center of the opening with respect to a feeding direction of the storage tape when the electronic component is smaller than a
10 predetermined size.

9. The electronic component mounting apparatus of claim 8, wherein the electronic component feeding device further comprises a shutter disposed over the opening of the suppressor and configured to open when the electronic component is picked up by the mounting
15 head.

10. The electronic component mounting apparatus of claim 8, wherein the control device is configured to set the feed stop position by using a head electronic component of the storage tape.

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11. The electronic component mounting apparatus of claim 8, wherein the control device sets the feed stop position at the center of the opening when the electronic component is larger than the predetermined size.

12. The electronic component mounting apparatus of claim 8, wherein the mounting head picks up the electronic component at the feed stop position.

13. The electronic component mounting apparatus of claim 8, wherein the recognition camera is a board recognition camera for recognizing a position of a positioning mark on the printed board.

14. An electronic component mounting apparatus comprising:
an electronic component feeding device feeding an electronic component for mounting,
10 the electronic component feeding device comprising a tape feeding system provided with a drive source enabling an intermittent feeding of a storage tape stored with electronic components to a component pickup position, and a suppressor formed with an opening disposed at the component pickup position;

a mounting head that picks up the electronic component fed from the electronic
15 component feeding device and mounts the picked up electronic component on a printed circuit board;

a recognition camera taking an image of the electronic component stored in the storage tape through the opening;

an image display device displaying the image taken by the recognition camera;

20 an operating portion that is operated by an operator based on the image displayed on the image display device; and

a control device setting a feed stop position of the electronic components in the storage tape based on an operation of the operating portion by the operator so that an electronic component is positioned closer to an edge of the opening than a center of the opening with

respect to a feeding direction of the storage tape when the electronic component is smaller than a predetermined size.

15. The electronic component mounting apparatus of claim 14, wherein the electronic
5 component feeding device further comprises a shutter disposed over the opening of the
suppressor and configured to open when the electronic component is picked up by the mounting
head.

16. The electronic component mounting apparatus of claim 14, wherein the control
10 device is configured to set the feed stop position by using a head electronic component of the
storage tape.

17. The electronic component mounting apparatus of claim 14, wherein the control
device sets the feed stop position at the center of the opening when the electronic component is
15 larger than the predetermined size.

18. The electronic component mounting apparatus of claim 14, wherein the mounting
head picks up the electronic component at the feed stop position.

20 19. The electronic component mounting apparatus of claim 14, wherein the recognition
camera is a board recognition camera for recognizing a position of a positioning mark on the
printed board.